Leucocrystal Violet

Table of Contents

1	INTR	Introduction/Scope				
2	STAN	STANDARDS AND CONTROLS				
		LIMITATIONS				
	EQUIPMENT					
5	Procedure					
	5.1	Solution Preparation	2			
	5.1.	1 Leucocrystal Violet Working Solution Preparation	2			
	5.2	Application	2			
		Storage				
	5.4	Shelf Life	3			
6	SAFE	тү	3			
		REVISION HISTORY				
•	NEVI	REVISION DISTORY				

Leucocrystal Violet

1 Introduction/Scope

- A. Leucocrystal Violet is used by FBI Laboratory Friction Ridge Discipline personnel to enhance visual prints or develop latent prints deposited in blood.
- B. The process can be used on all surfaces but is primarily used on non-porous items.

2 STANDARDS AND CONTROLS

See Processing Overview (FRD-300).

3 LIMITATIONS

The background of porous items may become stained during the process and obscure information.

4 EQUIPMENT

- Distilled water
- Leucocrystal Violet (dye content ≥90%)
- Sodium Acetate
- Hydrogen Peroxide (3% solution)
- 5-Sulfosalicylic Acid (purity ≥99%)

5 PROCEDURE

5.1 Solution Preparation

Personnel will prepare the solution as follows. Alternative amounts may be prepared, provided the same ratio of chemicals mixed is retained.

5.1.1 <u>Leucocrystal Violet Working Solution Preparation</u>

- A. Combine:
 - o Hydrogen Peroxide (3% solution) 1000 mL
 - o 5-Sulfosalicylic Acid 20 g
 - o Sodium Acetate 7.4 g
 - o Leucocrystal Violet 2 g
- B. Stir until Leucocrystal Violet dissolves (approximately 30 minutes).

5.2 Application

- A. Personnel will apply Leucocrystal Violet working solution to the item.
 - 1. The area may be blotted with a tissue or paper towel as needed.
 - 2. As Leucocrystal Violet is prone to over-development, personnel will use the finest mist possible to avoid overdevelopment and running of bloody print.
- B. Capture appropriate friction ridge details as applicable (digitally or photographically).

FRD-363-03 : Leucocrystal Violet	Page 2 of 3	Issue Date: 08/01/2022
----------------------------------	-------------	------------------------

5.3 Storage

Leucocrystal Violet working solution must be stored in a dark bottle.

5.4 Shelf Life

Leucocrystal Violet working solution has a 30-day shelf life provided the reagent checks are satisfactory.

6 SAFETY

See FBI Laboratory Safety Manual for appropriate information.

7 REVISION HISTORY

Revision	Issued	Changes
02	07/15/2021	Replace Latent Print Units with Friction Ridge Discipline. Minor wording changes. Section 1 - add last sentence. Section 2 - added limitation. Section 3 - streamline equipment list. Section 4.1.1 - added ratio allowance. Re-organization and renumbering of sections. Section 5 - added Preamble reference.
03	08/01/2022	Reformatted